WELDING JOURNAL INDEX

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Welding Journal

This part includes general technical articles, papers presented before Section and National meetings, articles for the Practical Welder and Designer, news, biographical items, current welding literature and advertising.

Welding Research Supplement

This section includes the reports of the Welding Research Council, critical digests of the literature, reports of the Project Committees and research reports of industry.

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Fatigue of Aluminum-Magnesium Alloys—HAROLD MINDLIN, 276-s to 281-s (Jun).
Fatigue Tests of Welded Plate Girders—B. T. YEN and P. B. COOPER, 261-s to 263-s (Jun).
Fatigue Testing, Triaxial Tensile Stress—G. WELTER and J. A. CHOQUET, 565-s to 570-s (Dec).
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Fracture Toughness of Air-Quenched Versus Oil-Quenched H-11 Sheet Steel—H. W. MAYNOR, JR., and RALPH E. BLAIR, 428-s to 429-s (Sep).
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Friction Welding of Two Dissimilar Materials in Tubular Form, Transient Temperature Distribution During—C. J. CHENG, 233-s to 240-s (May).
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Galvanized Steel in Thicknesses of 0.022 to 0.138 In., Resistance Spot Welding of—E. A. GREEN and J. J. RILEY, 466-s to 475-s (Oct).
Gas-Shielded Metal Arc Process, Welding of HY-80 Steel with—C. R. SIBLEY, 219-s to 232-s (May).

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Heat-Affected Zone, Notch Sensitivity of in Type 316 Material—R. J. CHRISTOFFEL, 25-s to 28-s (Jan).
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Nickel Sheet, Thin, Brazing of—W. A. PETERSEN, 190-s to 192-s (Apr).
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Resistance Welding, 400 Cycle—J. F. DEFFENBAUGH and F. E. MURRAY, 557-s to 564-s (Dec).
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PAI, D. H.—An Experimental Investigation of Stresses in an HY-80 Marine Boiler Drum with Added Attachments, 37-s to 48-s (Jan).
PALEY, ZVI—Heat Conduction from Moving Arcs in Welding, 97-s to 104-s (Mar).
PASSMORE, E. M.—Solid State Welding of Beryllium, 186-s to 189-s (Apr).
PECK, J. V.—Welding $3^1/_2$% Nickel Steel, 193-s to 201-s (May).
PENSE, A. W.—A Study of Subcritical Embrittlement in Pressure Vessel Steels, 541-s to 546-s (Dec).
PETERSEN, W. A.—Brazing Thin Nickel Sheet, 190-s to 192-s (Apr).
PLATTE, W. N.—Welding Columbium and Columbium Alloys, 69-s to 83-s (Feb).
Laser Techniques for Metals Joining, 481-s to 489-s (Nov).
PODGURSKI, P. P.—Tensile Properties of High Purity Iron-Base Weld Metals, 385-s to 391-s (Sep).
PRINCE, L. A.—The Determination of Magnesium, Chromium, Copper, Nickel and Cobalt in Iron and Steel by Flame Photometry, 347-s to 352-s (Aug).

RALLS, K. M.—Joining Current Contacts to Superconducting Wire, 411-s to 416-s (Sep).
RAMSEY, P. W.—Infrared Temperature Sensing Systems for Automatic Fusion Welding, 337-s to 346-s (Aug).
RANDALL, M. D.—The Relation of Filler Wire Hydrogen to Aluminum-Weld Porosity, 433-s to 441-s (Oct).
RAO, N. R. NAGARAJA—Columns Reinforced Under Load, 177-s to 185-s (Apr).
RILEY, J. J.—Resistance Spot Welding Galvanized Steel of Thicknesses 0.022 to 0.138 In., 466-s to 475-s (Oct).
ROBELOTTO, ROCCO—Resistance Seam Butt Welding as Developed at North American Aviation, Inc., 320-s to 324-s (Jul).
ROGERSON, J. H.—Comparison of Houldcroft and Patch Weld Cracking Tests, 160-s to 163-s (Apr).
An Analysis and Evaluation of the Houldcroft Weld Cracking Test, 264-s to 268-s (Jun).
ROLFE, S. T.—Fatigue Crack Propagation in Notched Mild Steel Plates, 252-s to 260-s (Jun).
ROSE, R. M.—Joining Current Contacts to Superconducting Wire, 411-s to 416-s (Sep).
RUDY, J. F.—Fiber Metal for Joining, 529-s to 534-s (Dec).

SCHILLINGER, D. E.—Improved Weld Strength in 2000 Series Aluminum Alloys, 269-s to 275-s (Jun).
SCHNABEL, G.—Discussion of "A Critical Analysis of the Weld Heat-Affected Zone Hot Ductility Test," 55-s to 57-s (Feb).
SCHUELER, A. W.—Welding Steels with Thin Metal Coatings, 378-s to 384-s (Aug).
SCHWARTZBART, H.—Surface Activity of Lithium in Silver-Lithium Brazing Alloys, 61-s to 68-s (Feb).
SCHWENK, W.—Weldability of René 41, 460-s to 465-s (Oct).
SIBLEY, C. R.—Welding of HY-80 Steel with the Gas-Shielded Metal Arc Process, 219-s to 232-s (May).
SLAUGHTER, G. M.—Welding of Columbium—1% Zirconium, 18-s to 24-s (Jan).
Development of Alloys for Brazing Columbium, 535-s to 540-s (Dec).
SMITH, C. J.—The Deformation of Thick Austenitic Steel Plates During Welding, 145-s to 150-s (Apr).
SMITH, J. F.—Laser Techniques for Metals Joining, 481-s to 489-s (Nov).
SOLDAN, H. M.—Discussion of "A Critical Analysis of the Weld Heat-Affected Zone Hot Ductility Test," 55-s to 57-s (Feb).
STONE, L. H.—Brazing of Thin Gage René 41 Honeycomb, 397-s to 403-s (Sep).
STOUT, R. D.—Solidification Phenomena in Inert Gas Metal-Arc Welds, 298-s to 310-s (Jul).
Tensile Properties of High Purity Iron-Base Weld Metals, 385-s to 391-s (Sep).
A Study of Subcritical Embrittlement in Pressure Vessel Steels, 541-s to 546-s (Dec).

TALL, L.—Experimental Investigation of Welded Built-Up Columns, 164-s to 176-s (Apr).
Columns Reinforced Under Load, 177-s to 185-s (Apr).
TANKINS, E. S.—Slag-Metal Reactions in Submerged-Arc Welding, 289-s to 297-s (Jul).
TOROK, T. E.—Tensile Properties of High Purity Iron-Base Weld Metals, 385-s to 391-s (Sep).
TRABOLD, A. F.—Weldability of René 41, 460-s to 465-s (Oct).
TRAVIS, R. E.—Comparison of Processes for Welding Ultra-High Strength Sheet Steels, 9-s to 17-s (Jan).

VANAMAN, A. O.—Brazing René 41 Honeycomb Sandwich Structures, 353-s to 358-s (Aug).
VAN NESS, H. C.—Embrittlement of Steel by High-Pressure Hydrogen Gas, 316-s to 319-s (Jul).
VAUGHAN, H. G.—Comparisons Between Drop Weight and Crack Arrest Tests for the Estimation of the Brittle Fracture Transition Temperature of Steel, 202-s to 204-s (May).

WEISS, M.—Infrared Temperature Sensing Systems for Automatic Fusion Welding, 337-s to 346-s (Aug).
WELTER, G.—Triaxial Tensile Stress Fatigue Testing 565-s to 570-s (Dec).
WESSEL, E. T.—Fracture Characteristics of Some High-Strength, Weldable, Structural Steels, 512-s to 528-s (Nov).
WILLIAMS, C. S.—Steel Strength and Ductility Response to Arc-Welding Thermal Cycles, 1-s to 8-s (Jan).
WILLIAMS, N. T.—The Deformation of Thick Austenitic Steel Plates During Welding, 145-s to 150-s (Apr).
WITHERELL, C. E.—Welding $3^1/_2$% Nickel Steel, 193-s to 201-s (May).
WITT, R. H.—Heat-Affected Zone Cracking in A-286 Weldments, 365-s to 370-s (Aug).
WU, K. C.—Universal Data for Resistance Welding, 151-s to 159-s (Apr).
A Study of Weld Heat-Affected Zones in the Titanium 6Al – 6V – 2Sn Alloy, 241-s to 249-s (Jun).
Discussion by C. E. Hartbower and G. M. Orner, 249-s to 251-s (Jun).
Authors' Reply, 251-s (Jun).
A Study of the Weld Heat-Affected Zone of Centrifugally Cast 5% Chromium Steel, 392-s to 396-s (Sep).
WU, S. M.—Statistical Analysis of Rail Steel Bar Welds, 311-s to 315-s (Jul).
WULFF, J.—Tensile Deformation and Fracture of Brazed Joints, 115-s to 125-s (Mar).
Joining Current Contacts to Superconducting Wire, 411-s to 416-s (Sep).
WUNDT, B. M.—Slow Bend and Impact Testing of Nitrided Charpy V-Notched Specimens, 325-s to 334-s (Jul).
WYMAN, J. C.—Friction Welding Parameter Analysis, 495-s to 501-s (Nov).

YEN, B. T.—Fatigue Tests of Welded Plate Girders, 261-s to 263-s (Jun).